Project Design Phase-1
Proposed Solution

Date	17 October 2022
Team ID	PNT2022TMID06212
Project Name	Emerging methods for early detection of forest fires
Maximum Marks	2 Marks

Proposed Solution:

S.NO	Parameter	Description
1.	Problem Statement(Problem to be solved)	Forest fires are a major environmental issue, creating economic and ecological damage while endangering human lives. It is difficult to predict and detect Forest Fire in a sparsely populated forest area. So, it is necessary to detect the fire in an early stage to control it
2.	Idea /Solution description	Use computer vision methods for recognition and detection of smoke or fire, based on the still images or the video input from the drone cameras.
3.	Novelty /Uniqueness	When the fire is detected, the station will get a notification via message and an alarm system will be activated automatically to alert the user.
4.	Social impact / Customer Satisfaction	By using this system it reduces global warming which causes major climatic changes and prevents wild animals and birds from danger by this method the smoke due to fire is also prevented which causes various effects on Nature.
5.	Business Model(Revenue Model)	This system is used to predict the forest fire at the early stage, prevent the wild lives from fire and prevents global warming. This model is more reliable and can produce accurate detection of forest fire.
6.	Scalability of the Solution	Computer vision models enable land cover classification and smoke detection from satellite and ground cameras